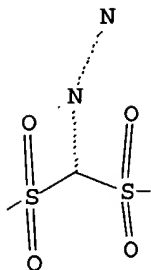```
=> d
L1 HAS NO ANSWERS
L1   STR
```



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 09:01:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   11 TO ITERATE

100.0% PROCESSED   11 ITERATIONS   10 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 22 TO   418
PROJECTED ANSWERS: 11 TO   389

L2   10 SEA SSS SAM L1

=> d scan

L2   10 ANSWERS   REGISTRY COPYRIGHT 2002 ACS
IN   Methane, diazobis[(p-isopropylphenyl)sulfonyl]- (8CI)
MF   C19 H22 N2 O4 S2
```
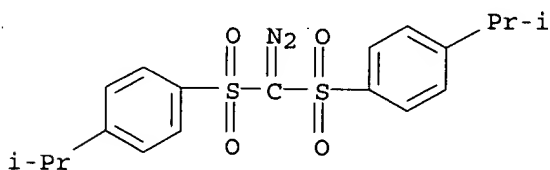


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

```
=> s l1 ful
FULL SEARCH INITIATED 09:02:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    243 TO ITERATE

100.0% PROCESSED      243 ITERATIONS                        241 ANSWERS
SEARCH TIME: 00.00.01
```

```
L3            241 SEA SSS FUL L1

=> s 13 and caplus/lc
     20421151 CAPLUS/LC
L4            220 L3 AND CAPLUS/LC

=> s 13 not 14
L5             21 L3 NOT L4

=> d 1-21

L5    ANSWER 1 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN    364053-81-6  REGISTRY
CN    Hydrazine, [bis(phenylsulfonyl)methylene](2-methoxyphenyl)- (9CI)   (CA
      INDEX NAME)
FS    3D CONCORD
MF    C20 H18 N2 O5 S2
SR    Chemical Library
```
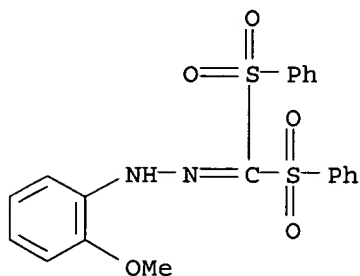
O=S(=O)-Ph ; NH-N=C-S(=O)(=O)-Ph ; OMe ; (2-methoxyphenyl group)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

```
L5    ANSWER 2 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN    131184-38-8  REGISTRY
CN    Pyridine, 2-[2-[[diazo(propylsulfonyl)methyl]sulfonyl]ethyl]- (9CI)   (CA
      INDEX NAME)
MF    C11 H15 N3 O4 S2
CI    COM
SR    CA
```
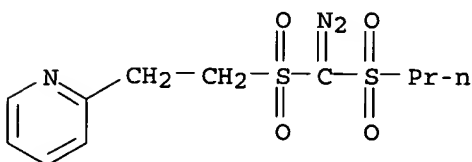
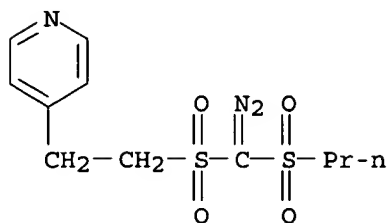Pyridine–CH2–CH2–S(=O)(=O)–C(N2)–S(=O)(=O)–Pr-n
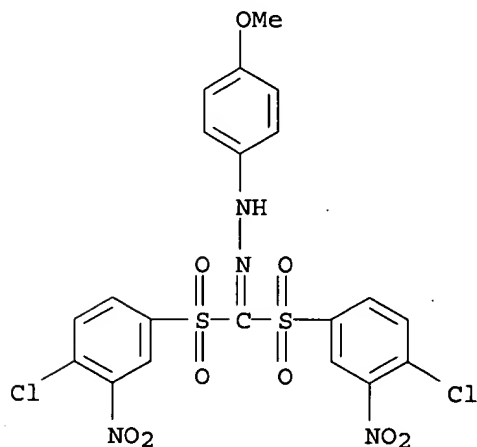
```
L5    ANSWER 3 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN    131184-34-4  REGISTRY
```

CN   Pyridine, 4-[2-[[diazo(propylsulfonyl)methyl]sulfonyl]ethyl]- (9CI)   (CA
       INDEX NAME)
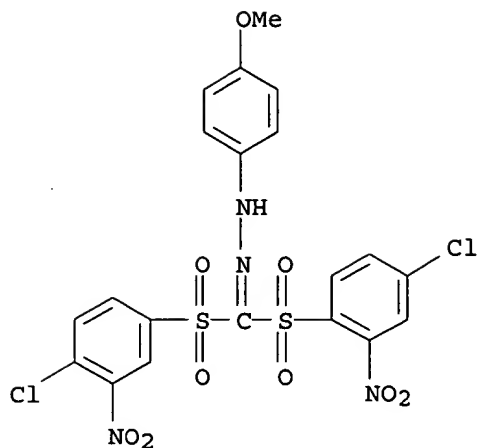MF   C11 H15 N3 O4 S2
CI   COM
SR   CA

L5   ANSWER 4 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   26058-69-5 REGISTRY
CN   Carbonic acid, dithio-, S,S-bis(4-chloro-3-nitrophenyl) ester,
       (p-methoxyphenyl)hydrazone, S,S,S',S'-tetraoxide (8CI)   (CA INDEX NAME)
FS   3D CONCORD
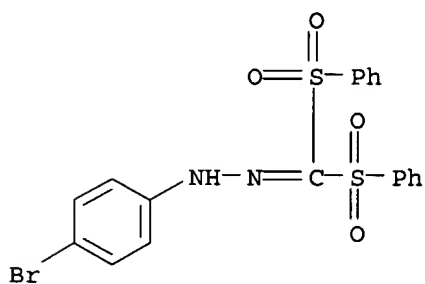MF   C20 H14 Cl2 N4 O9 S2
LC   STN Files: CHEMCATS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   ANSWER 5 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   24865-95-0 REGISTRY
CN   Hydrazine, [bis[(4-chloro-2-nitrophenyl)sulfonyl]methylene](4-
       methoxyphenyl)- (9CI)   (CA INDEX NAME)
FS   3D CONCORD
MF   C20 H14 Cl2 N4 O9 S2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

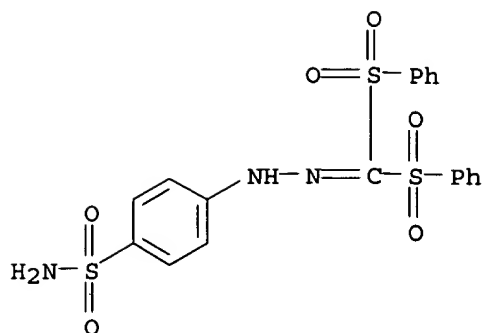L5   ANSWER 6 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   6751-89-9 REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-bromophenyl)- (7CI, 8CI)
      (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H15 Br N2 O4 S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
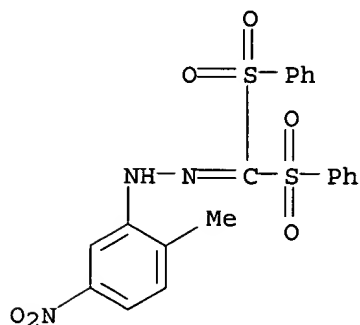
L5   ANSWER 7 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   6748-55-6 REGISTRY
CN   Benzenesulfonamide, p-[[bis(phenylsulfonyl)methylene]hydrazino]- (7CI,
      8CI) (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H17 N3 O6 S3
LC   STN Files: BEILSTEIN*, CAOLD
          (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

            1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
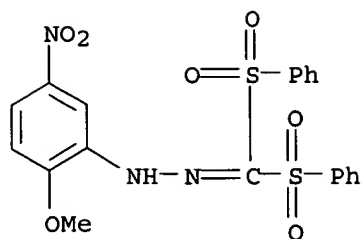
L5   ANSWER 8 OF 21   REGISTRY   COPYRIGHT 2002 ACS
RN   6652-68-2   REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(5-nitro-o-tolyl)- (7CI,
      8CI)   (CA INDEX NAME)
FS   3D CONCORD
MF   C20 H17 N3 O6 S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

            1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
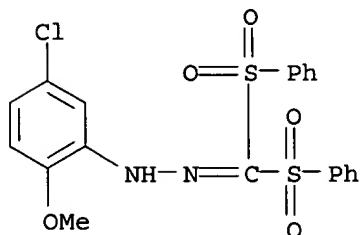
L5   ANSWER 9 OF 21   REGISTRY   COPYRIGHT 2002 ACS
RN   6652-67-1   REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(2-methoxy-5-nitrophenyl)-
      (7CI, 8CI)   (CA INDEX NAME)
FS   3D CONCORD
MF   C20 H17 N3 O7 S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
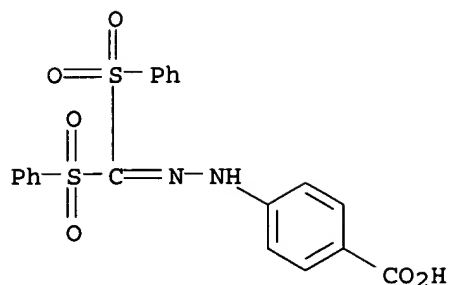
```
L5    ANSWER 10 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN    6652-66-0  REGISTRY
CN    Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(5-chloro-2-methoxyphenyl)-
      (7CI, 8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C20 H17 Cl N2 O5 S2
LC    STN Files:   CAOLD
```


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

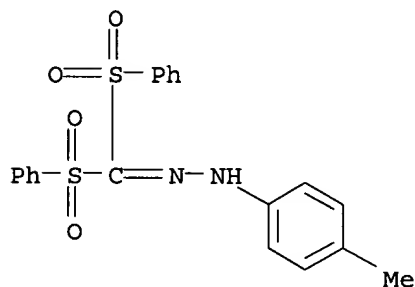1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L5    ANSWER 11 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN    6652-57-9  REGISTRY
CN    Benzoic acid, p-[[bis(phenylsulfonyl)methylene]hydrazino]- (7CI, 8CI)  (CA
      INDEX NAME)
FS    3D CONCORD
MF    C20 H16 N2 O6 S2
LC    STN Files:   BEILSTEIN*, CAOLD, CHEMCATS
          (*File contains numerically searchable property data)
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

          1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L5   ANSWER 12 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   6647-70-7 REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-p-tolyl- (7CI, 8CI)   (CA
      INDEX NAME)
FS   3D CONCORD
MF   C20 H18 N2 O4 S2
LC   STN Files: BEILSTEIN*, CAOLD
          (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

          1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L5   ANSWER 13 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   6647-69-4 REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-ethoxyphenyl)- (7CI, 8CI)
      (CA INDEX NAME)
FS   3D CONCORD
MF   C21 H20 N2 O5 S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L5   ANSWER 14 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN   6647-68-3  REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-chlorophenyl)- (7CI, 8CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H15 Cl N2 O4 S2
LC   STN Files:  BEILSTEIN*, CAOLD
          (*File contains numerically searchable property data)
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT
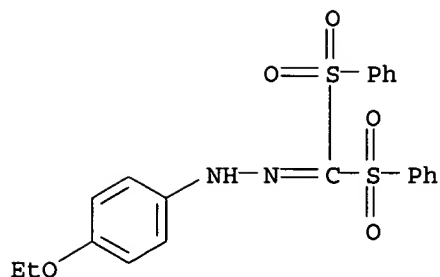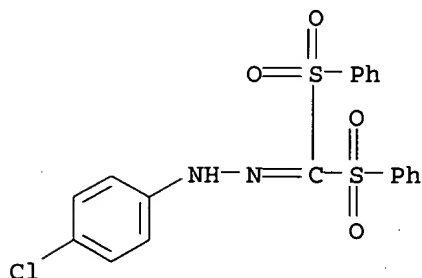
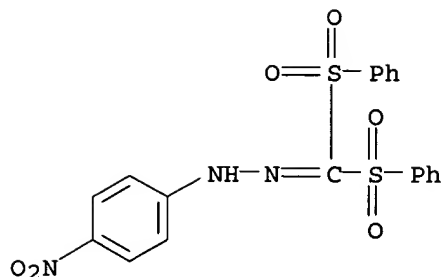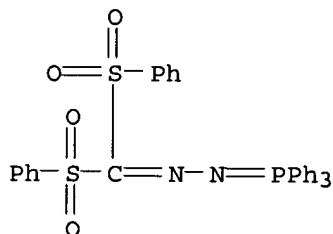1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L5   ANSWER 15 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN   6647-67-2  REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-nitrophenyl)- (7CI, 8CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H15 N3 O6 S2
LC   STN Files:  BEILSTEIN*, CAOLD
          (*File contains numerically searchable property data)
```

$$O = S(=O) - Ph$$

(structure: 4-nitrophenyl group connected via NH—N=C, with C bonded to two phenylsulfonyl groups)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

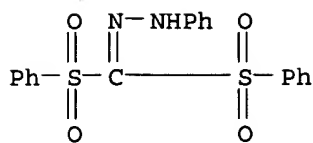   1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L5   ANSWER 16 OF 21   REGISTRY   COPYRIGHT 2002 ACS
RN   2025-69-6   REGISTRY
CN   Hydrazine, [bis(phenylsulfonyl)methylene](triphenylphosphoranylidene)-
     (9CI)   (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Phosphorane, [[bis(phenylsulfonyl)methylene]hydrazono]triphenyl- (7CI)
FS   3D CONCORD
MF   C31 H25 N2 O4 P S2
LC   STN Files: CAOLD

(structure: Ph—S(=O)₂—C=N—N=PPh₃ with another O=S(=O)—Ph group)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

              2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L5   ANSWER 17 OF 21   REGISTRY   COPYRIGHT 2002 ACS
RN   1819-25-6   REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-phenyl- (7CI, 8CI)   (CA
     INDEX NAME)
OTHER NAMES:
CN   Carbonic acid, dithio-, S,S-diphenyl ester, S,S,S,S-tetraoxide,
     phenylhydrazone
CN   Formaldehyde, bis(phenylsulfonyl)-, phenylhydrazone
FS   3D CONCORD
MF   C19 H16 N2 O4 S2
LC   STN Files: BEILSTEIN*, CAOLD
          (*File contains numerically searchable property data)

```
        O  N—NHPh  O
        ||  ||      ||
Ph— S— C————————S— Ph
        ||         ||
        O          O
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

                2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
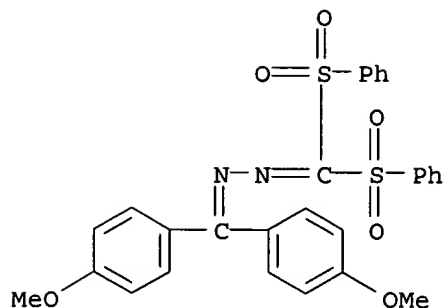
L5   ANSWER 18 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   1807-64-3 REGISTRY
CN   Methanone, diphenyl-, [bis(phenylsulfonyl)methylene]hydrazone (9CI)   (CA
      INDEX NAME)
OTHER CA INDEX NAMES:
CN   Carbonic acid, dithio-, S,S-diphenyl ester, S,S,S,S-tetraoxide, azine with
      benzophenone (8CI)
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(diphenylmethylene)- (7CI)
OTHER NAMES:
CN   Methanone, diphenyl-, azine with bis(phenylsulfonyl)formaldehyde
FS   3D CONCORD
MF   C26 H20 N2 O4 S2
LC   STN Files: BEILSTEIN*, CAOLD
           (*File contains numerically searchable property data)

```
           O
           ||
     O === S— Ph
     O     |
     ||     |
Ph— S— C === N— N === CPh2
     ||
     O
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
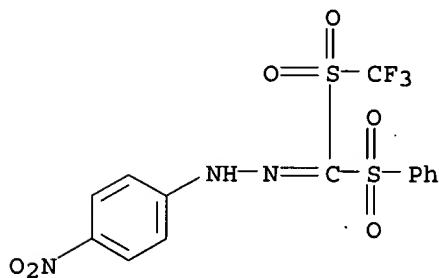
L5   ANSWER 19 OF 21 REGISTRY COPYRIGHT 2002 ACS
RN   1807-63-2 REGISTRY
CN   Hydrazine, 1-[bis(p-methoxyphenyl)methylene]-2-
      [bis(phenylsulfonyl)methylene]- (7CI, 8CI)   (CA INDEX NAME)
FS   3D CONCORD
MF   C28 H24 N2 O6 S2
LC   STN Files: BEILSTEIN*, CAOLD
           (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

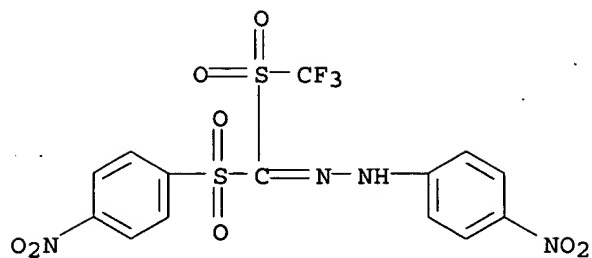1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L5    ANSWER 20 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN    910-24-7  REGISTRY
CN    Hydrazine, 1-(p-nitrophenyl)-2-[(phenylsulfonyl)[(trifluoromethyl)sulfonyl
      ]methylene]- (7CI, 8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C14 H10 F3 N3 O6 S2
LC    STN Files:  BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L5    ANSWER 21 OF 21  REGISTRY  COPYRIGHT 2002 ACS
RN    809-02-9  REGISTRY
CN    Hydrazine, 1-(p-nitrophenyl)-2-[[(p-nitrophenyl)sulfonyl][(trifluoromethyl
      )sulfonyl]methylene]- (7CI, 8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C14 H9 F3 N4 O8 S2
LC    STN Files:  BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```

[Chemical structure diagram showing a compound with CF_3, sulfonyl groups, and nitro-substituted benzene rings connected via S, $C=N-NH$ linkage, with O_2N and NO_2 substituents]

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=>
Uploading 09810650.str

L6          STRUCTURE UPLOADED

=> d
L6 HAS NO ANSWERS
L6                  STR
```

[Chemical structure diagram showing a central carbon bonded to two sulfonyl (SO2) groups each terminating in G1, with an N attached via dotted bond to another N, and a bracketed repeat unit notation 1 [...]0-4]

```
  2
Ak

G1 [@1],[@2]
```

Structure attributes must be viewed using STN Express query preparation.

```
=> s l6
SAMPLE SEARCH INITIATED 09:10:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      14 TO ITERATE

100.0% PROCESSED      14 ITERATIONS                    10 ANSWERS
SEARCH TIME: 00.00.02
```
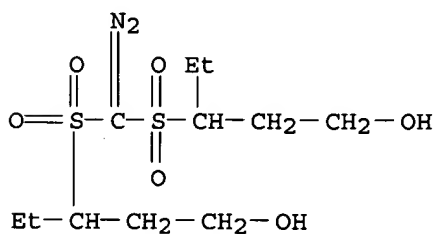
FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 56 TO   504
PROJECTED ANSWERS: 11 TO   389

L7   10 SEA SSS SAM L6

=> d scan

L7   10 ANSWERS   REGISTRY   COPYRIGHT 2002 ACS
IN   1-Pentanol, 3,3'-[(diazomethylene)bis(sulfonyl)]bis- (9CI)
MF   C11 H22 N2 O6 S2

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l6 ful
FULL SEARCH INITIATED 09:11:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   293 TO ITERATE

100.0% PROCESSED   293 ITERATIONS   238 ANSWERS
SEARCH TIME: 00.00.02

L8   238 SEA SSS FUL L6

=>
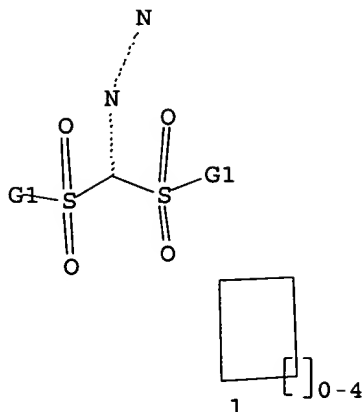Uploading 09810650.str

L9   STRUCTURE UPLOADED

=> d
L9 HAS NO ANSWERS
L9   STR

Structure attributes must be viewed using STN Express query preparation.


```
=> s l9 ful
FULL SEARCH INITIATED 09:12:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    293 TO ITERATE

100.0% PROCESSED    293 ITERATIONS                157 ANSWERS
SEARCH TIME: 00.00.02

L10        157 SEA SSS FUL L9

=> s l10 and caplus/lc
     20421151 CAPLUS/LC
L11        140 L10 AND CAPLUS/LC

=> s l10 not l11
L12        17 L10 NOT L11

=> d 1-17

L12   ANSWER 1 OF 17  REGISTRY  COPYRIGHT 2002 ACS
RN    364053-81-6  REGISTRY
CN    Hydrazine, [bis(phenylsulfonyl)methylene](2-methoxyphenyl)- (9CI)  (CA
      INDEX NAME)
FS    3D CONCORD
MF    C20 H18 N2 O5 S2
SR    Chemical Library
```
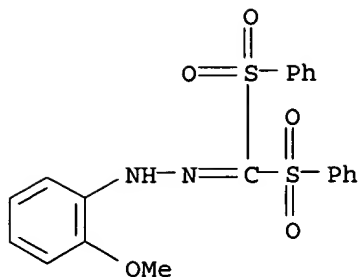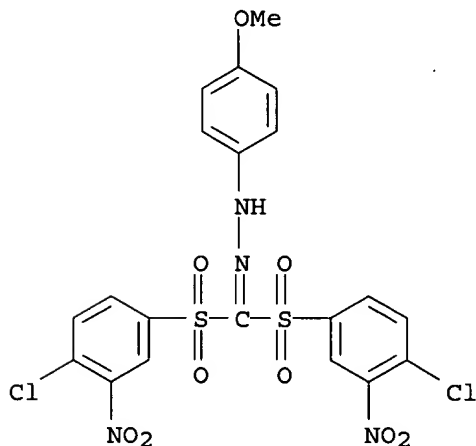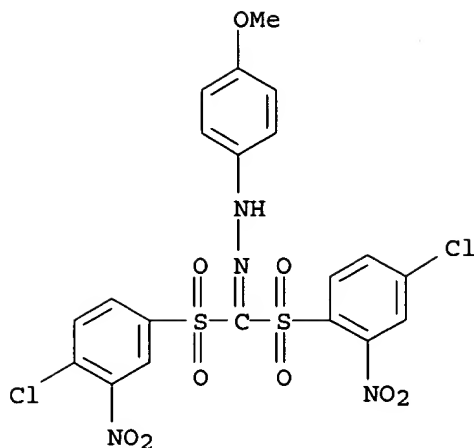
$$O=S(-Ph)(=O) \quad NH-N=C-S(-Ph)$$

(structure: 2-methoxyphenyl-hydrazono bis(phenylsulfonyl) methane)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12   ANSWER 2 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   26058-69-5   REGISTRY
CN   Carbonic acid, dithio-, S,S-bis(4-chloro-3-nitrophenyl) ester,
      (p-methoxyphenyl)hydrazone, S,S,S',S'-tetraoxide (8CI)   (CA INDEX NAME)
FS   3D CONCORD
MF   C20 H14 Cl2 N4 O9 S2
LC   STN Files: CHEMCATS

(structure: 4-methoxyphenyl-hydrazono bis(4-chloro-3-nitrophenylsulfonyl) methane)
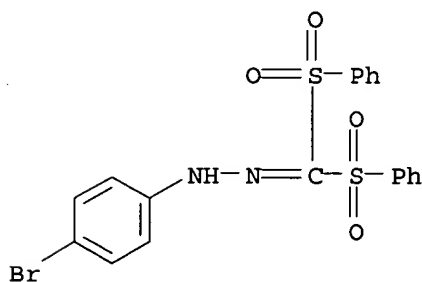
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12   ANSWER 3 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   24865-95-0   REGISTRY
CN   Hydrazine, [bis[(4-chloro-2-nitrophenyl)sulfonyl]methylene](4-
      methoxyphenyl)- (9CI)   (CA INDEX NAME)
FS   3D CONCORD
MF   C20 H14 Cl2 N4 O9 S2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

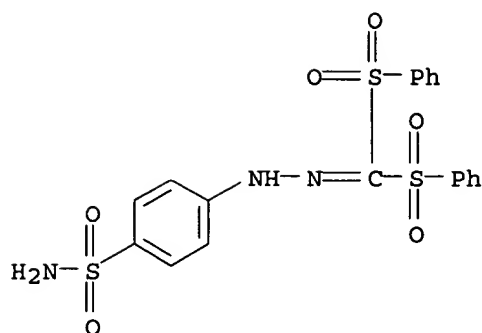L12   ANSWER 4 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   6751-89-9   REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-bromophenyl)- (7CI, 8CI)
      (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H15 Br N2 O4 S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

            1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
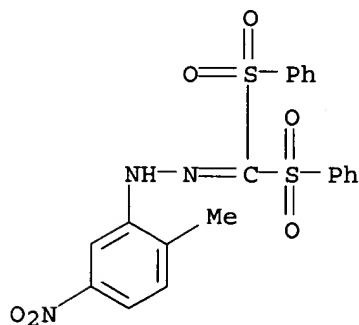
L12   ANSWER 5 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   6748-55-6   REGISTRY
CN   Benzenesulfonamide, p-[[bis(phenylsulfonyl)methylene]hydrazino]- (7CI,
      8CI) (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H17 N3 O6 S3
LC   STN Files: BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
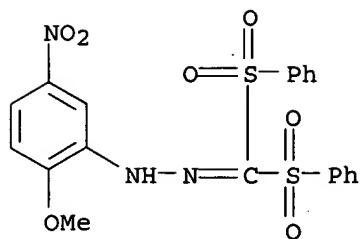
L12   ANSWER 6 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   6652-68-2 REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(5-nitro-o-tolyl)- (7CI,
      8CI) (CA INDEX NAME)
FS   3D CONCORD
MF   C20 H17 N3 O6 S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
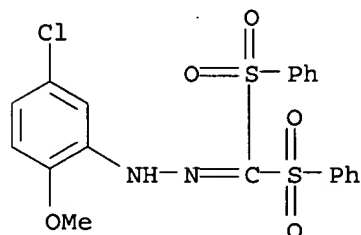
L12   ANSWER 7 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   6652-67-1 REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(2-methoxy-5-nitrophenyl)-
      (7CI, 8CI) (CA INDEX NAME)
FS   3D CONCORD
MF   C20 H17 N3 O7 S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

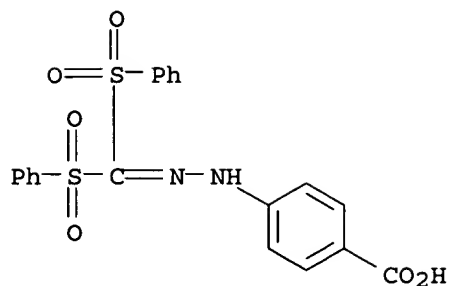1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L12   ANSWER 8 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN    6652-66-0   REGISTRY
CN    Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(5-chloro-2-methoxyphenyl)-
      (7CI, 8CI)   (CA INDEX NAME)
FS    3D CONCORD
MF    C20 H17 Cl N2 O5 S2
LC    STN Files:   CAOLD
```


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

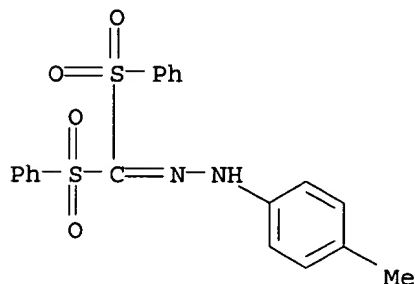1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L12   ANSWER 9 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN    6652-57-9   REGISTRY
CN    Benzoic acid, p-[[bis(phenylsulfonyl)methylene]hydrazino]- (7CI, 8CI)   (CA
      INDEX NAME)
FS    3D CONCORD
MF    C20 H16 N2 O6 S2
LC    STN Files:   BEILSTEIN*, CAOLD, CHEMCATS
          (*File contains numerically searchable property data)
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L12   ANSWER 10 OF 17  REGISTRY  COPYRIGHT 2002 ACS
RN    6647-70-7  REGISTRY
CN    Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-p-tolyl- (7CI, 8CI)  (CA
      INDEX NAME)
FS    3D CONCORD
MF    C20 H18 N2 O4 S2
LC    STN Files:  BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
L12   ANSWER 11 OF 17  REGISTRY  COPYRIGHT 2002 ACS
RN    6647-69-4  REGISTRY
CN    Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-ethoxyphenyl)- (7CI, 8CI)
      (CA INDEX NAME)
FS    3D CONCORD
MF    C21 H20 N2 O5 S2
LC  · STN Files:  CAOLD
```

$$
\begin{array}{c}
O \\
\parallel \\
O = S - Ph \\
\end{array}
$$

(structure 1: EtO-substituted phenyl with NH—N=C—S(=O)₂—Ph and S(=O)(=O)Ph groups)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12   ANSWER 12 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   6647-68-3   REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-chlorophenyl)- (7CI, 8CI)
      (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H15 Cl N2 O4 S2
LC   STN Files: BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)

(structure 2: Cl-substituted phenyl with NH—N=C—S(=O)₂—Ph and S(=O)(=O)Ph groups)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12   ANSWER 13 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   6647-67-2   REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(p-nitrophenyl)- (7CI, 8CI)
      (CA INDEX NAME)
FS   3D CONCORD
MF   C19 H15 N3 O6 S2
LC   STN Files: BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

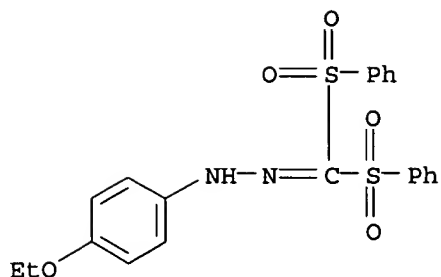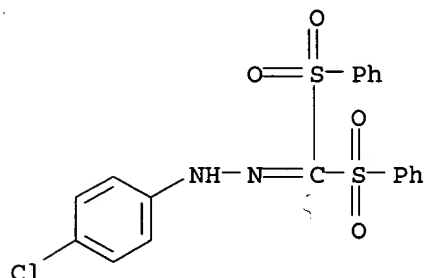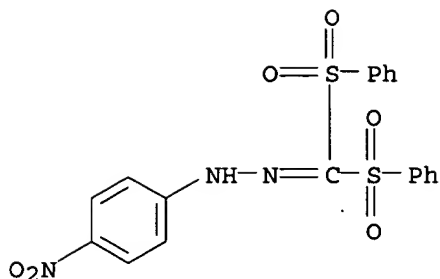   1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12   ANSWER 14 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   2025-69-6   REGISTRY
CN   Hydrazine, [bis(phenylsulfonyl)methylene](triphenylphosphoranylidene)-
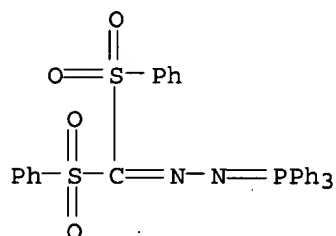   (9CI)   (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Phosphorane, [[bis(phenylsulfonyl)methylene]hydrazono]triphenyl- (7CI)
FS   3D CONCORD
MF   C31 H25 N2 O4 P S2
LC   STN Files: CAOLD

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

                    2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12   ANSWER 15 OF 17   REGISTRY   COPYRIGHT 2002 ACS
RN   1819-25-6   REGISTRY
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-phenyl- (7CI, 8CI)   (CA
      INDEX NAME)
OTHER NAMES:
CN   Carbonic acid, dithio-, S,S-diphenyl ester, S,S,S,S-tetraoxide,
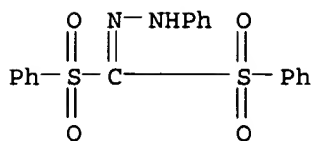   phenylhydrazone
CN   Formaldehyde, bis(phenylsulfonyl)-, phenylhydrazone
FS   3D CONCORD
MF   C19 H16 N2 O4 S2
LC   STN Files: BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)

```
      O   N—NHPh  O
      ||  ||      ||
Ph— S— C————————S— Ph
      ||         ||
      O          O
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN   1807-64-3 REGISTRY
CN   Methanone, diphenyl-, [bis(phenylsulfonyl)methylene]hydrazone (9CI) (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
CN   Carbonic acid, dithio-, S,S-diphenyl ester, S,S,S,S-tetraoxide, azine with
     benzophenone (8CI)
CN   Hydrazine, 1-[bis(phenylsulfonyl)methylene]-2-(diphenylmethylene)- (7CI)
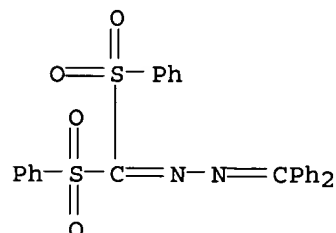OTHER NAMES:
CN   Methanone, diphenyl-, azine with bis(phenylsulfonyl)formaldehyde
FS   3D CONCORD
MF   C26 H20 N2 O4 S2
LC   STN Files: BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```

```
           O
           ||
     O═══S— Ph
     O     |
     ||    |
Ph— S— C═══N— N═══CPh2
     ||
     O
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2002 ACS
RN   1807-63-2 REGISTRY
CN   Hydrazine, 1-[bis(p-methoxyphenyl)methylene]-2-
     [bis(phenylsulfonyl)methylene]- (7CI, 8CI) (CA INDEX NAME)
FS   3D CONCORD
MF   C28 H24 N2 O6 S2
LC   STN Files: BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)

```
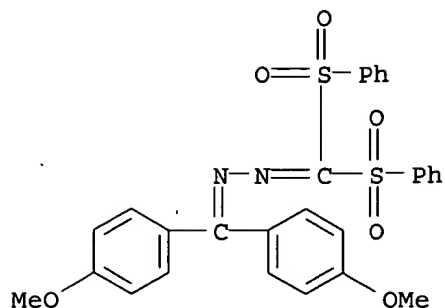
MeO—(structure)—OMe

Structure showing sulfonyl groups with Ph substituents and hydrazone linkage

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                    1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=>
Uploading 09810650.str

L13        STRUCTURE UPLOADED

=> d
L13 HAS NO ANSWERS
L13                        STR

(chemical structure diagram with N, N, S, G1, O groups)

Ak$^2$

G1 [@1],[@2]


Structure attributes must be viewed using STN Express query preparation.


=> s l13
SAMPLE SEARCH INITIATED 09:14:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      14 TO ITERATE

100.0% PROCESSED        14 ITERATIONS                    3 ANSWERS
SEARCH TIME: 00.00.01
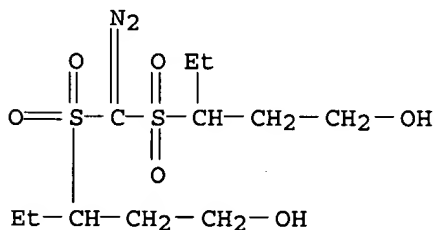
FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:            56 TO      504
PROJECTED ANSWERS:                3 TO      163

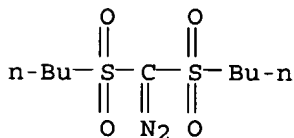L14             3 SEA SSS SAM L13

=> d 1-3

L14    ANSWER 1 OF 3   REGISTRY   COPYRIGHT 2002 ACS
RN     243857-66-1   REGISTRY
CN     1-Pentanol, 3,3'-[(diazomethylene)bis(sulfonyl)]bis- (9CI)   (CA INDEX
       NAME)
FS     3D CONCORD
MF     C11 H22 N2 O6 S2
SR     CA
LC     STN Files:   CA, CAPLUS

$$
\begin{array}{c}
\quad\quad N_2 \\
O \quad \parallel \quad O \;\; Et \\
\parallel \quad\quad \parallel \quad | \\
O=S-C-S-CH-CH_2-CH_2-OH \\
| \quad\quad \parallel \\
| \quad\quad O \\
Et-CH-CH_2-CH_2-OH
\end{array}
$$

            1 REFERENCES IN FILE CA (1967 TO DATE)
            1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
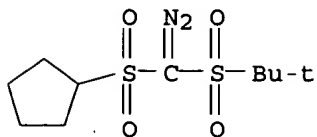
L14    ANSWER 2 OF 3   REGISTRY   COPYRIGHT 2002 ACS
RN     216870-63-2   REGISTRY
CN     Butane, 1,1'-[(diazomethylene)bis(sulfonyl)]bis- (9CI)   (CA INDEX NAME)
FS     3D CONCORD
MF     C9 H18 N2 O4 S2
SR     CA
LC     STN Files:   CA, CAPLUS, USPATFULL

$$
\begin{array}{c}
O \quad\quad O \\
\parallel \quad\quad \parallel \\
n\text{-}Bu-S-C-S-Bu\text{-}n \\
\parallel \quad \parallel \quad \parallel \\
O \;\; N_2 \;\; O
\end{array}
$$

            4 REFERENCES IN FILE CA (1967 TO DATE)
            4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14    ANSWER 3 OF 3   REGISTRY   COPYRIGHT 2002 ACS
RN     138529-89-2   REGISTRY
CN     Cyclopentane, [[diazo[(1,1-dimethylethyl)sulfonyl]methyl]sulfonyl]- (9CI)

(CA INDEX NAME)
FS    3D CONCORD
MF    C10 H18 N2 O4 S2
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL

$$
\text{cyclopentyl} - \overset{\overset{O}{\|}}{\underset{\underset{O}{\|}}{S}} - \overset{\overset{N_2}{\|}}{C} - \overset{\overset{O}{\|}}{\underset{\underset{O}{\|}}{S}} - Bu\text{-}t
$$

        1 REFERENCES IN FILE CA (1967 TO DATE)
        1 REFERENCES IN FILE CAPLUS (1967 TO DATE)


=> s l13 ful
FULL SEARCH INITIATED 09:15:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    293 TO ITERATE

100.0% PROCESSED     293 ITERATIONS                    24 ANSWERS
SEARCH TIME: 00.00.01

L15            24 SEA SSS FUL L13

=> s l15 and caplus/lc
     20421151 CAPLUS/LC
L16           24 L15 AND CAPLUS/LC

=> s l15 and caold/lc
     1435649 CAOLD/LC
L17            0 L15 AND CAOLD/LC

=> fil caplus
COST IN U.S. DOLLARS                    SINCE FILE      TOTAL
                                          ENTRY        SESSION
FULL ESTIMATED COST                       648.06       648.21

FILE 'CAPLUS' ENTERED AT 09:15:30 ON 13 FEB 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907 - 13 Feb 2002  VOL 136 ISS 7
FILE LAST UPDATED: 11 Feb 2002  (20020211/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the CAS files between 12/27/01
and 1/23/02.  As of 1/23/02, the situation has been resolved.  Searches
and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry
Numbers with the P indicator executed between 12/27/01 and 1/23/02 may
be incomplete.  See the NEWS message on this topic for more information.

=> s l15

L18          137 L15